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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/973,311	10/09/2001	Karen I. Trovato		US 010479	8196	
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PHILIPS INTELLECTUAL PROPERTY & STANDARDS				SUAZO, RAINIER A		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ſ	ART UNIT	PAPER NUMBER	
			٠	2144		
			I	DATE MAILED: 07/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	Application No	Acottoontics				
	Application No.	Applicant(s)				
Office Action Summary	09/973,311	TROVATO, KAREN I.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication	Rainier Suazo	2144				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		©				
1) Responsive to communication(s) filed on	09 May 2005.					
	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.						
7) Claim(s) is/are objected to.	<u> </u>					
8) Claim(s) are subject to restriction a	and/or election requirement.	·				
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>09 October 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892)		mmary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Off	ice Action Summary	Part of Paper No./Mail Date 06292005				

DETAILED ACTION

1. Claims 1-25 are pending in this application.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 recites the limitation "information communicated to the client system is within a prior subset of the data set". It is not clear what the applicant refers to as "information communicated to the client system is within a prior subset of the data set" to the light of the disclosure presented for examination, since the information concerning the transmission is address information and is not related to the subset of data being transmitted, moreover, there is not suggestion or explanation related to embedding or mixing such two distinct data, therefore no reasonable meaning can be ascribed to this particular limitation. As per MPEP 2143.03 (2nd paragraph), for the purpose of examination "information communicated to the client system is within a prior subset of the data set" was interpreted to be information communicated to the client.

Claim Rejections - 35 USC § 102(e)

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Boykin et al. (U.S. 2003/0079222 A1), hereinafter 'Boykin'.

Regarding claim 1, 14, Boykin taught a system for transmitting digital encoded data, comprising: associating each subset of data comprising the data set to a select IP address of a plurality of IP addresses (from paragraph [0170] line 24 to paragraph [0171] line 7), at least two of the subsets comprising the data set having different select IP addresses of the plurality of IP addresses (fig. 34 and 35 paragraph [171 lines 1-7]), and providing access to each subset of the data set via a request for the subset at the select IP address associated with the subset (paragraph [0172] lines 17-30).

Boykin inherently taught the association of portions (segments 621) of a file 620 with the IP address of the host (servers (see paragraph [0172] lines 15-17)) in a list that is provided the clients in order to enable the clients to "incast" the file (dataset) (paragraph [0172] lines 28-30).

Art Unit: 2144

Regarding claim 10 and 22, Boykin taught a system for transmitting digital encoded data, comprising: selecting a first IP address that is associated with a first subset of the data set, requesting the first subset at the first IP address, selecting a second IP address that is associated with a second subset of the data set (paragraph [0171] lines 1-7, 35-36 and in paragraph [0172] lines 47-49), the second IP address being different from the first IP address, and requesting the second subset at the second IP address (fig. 35 and paragraph [0172] lines 47-49). See also, (from paragraph [0170] line 24 to paragraph [0171] line 7, fig. 34 and 35, and paragraph [0172] lines 17-30).

Regarding claims **2**, **11-12**, **15** and **23-24**, Boykin taught communicating information to a client system that facilitates the determination of the select IP address for each subset in **paragraph [0172] lines 1-24**. Note, for example the following excerpts: a) "...returned to the client..." and b) "...the client will also receive..."

Regarding claim **3 and 16**, Boykin taught that the information is communicated to the client system via a secure communication (paragraph [0124 and 0189]). Note for example that Boykin taught the use of scrambled and encrypted communications.

Regarding claim **4 and 17**, Boykin taught providing access to each subset occurs via a first communication channel, and communicating the information to the client system occurs via a second communication channel (1136 to 1137) that differs from the

Art Unit: 2144

first communication channel (1126 to 1125) (fig. 48 and in paragraph [0194]). Boykin explains how secured communication is used in the related art (figs. 1-4 paragraph [0124 and 0189]), concerned about security issues, Boykin taught an encryption processing section 5, as one of the main elements of the prior art in paragraph [0124] that is later modified and incorporated into the preferred embodiments described in figure 36, element 20 as a perceptual encryption block. Moreover, Boykin taught the existence of embodiments comprising plural communication channels 6 and 7, wherein channel 7 is depicted to be used for authorization purposes related to a conditional access (see fig. 1).

Regarding claim 5, 13, 18 and 25, Boykin taught associating each subset to the select IP address is based on a pseudo-random process that is initialized with a seed value, and the information that is communicated to the client system includes the seed value (paragraph [0172] lines 17-35). Note that the information provided to the client is commensurate with an initial information (seed) (see line 25 in paragraph [0172]) used to determine the additional servers that will be requested to serve the file segments, additionally the adaptive incasting algorithm that allow virtual segmentation that is dependent on "a number of factors" (see lines 28-33 in paragraph [0172]), therefore depicting a pseudo-random process, that is by definition based on random event but initiated with known information (seed).

Art Unit: 2144

Regarding claim 6 and 19, Boykin taught that the information that is communicated to the client system is encrypted using a public-key system (see paragraph [0171]).

Regarding claim 7, Boykin taught that the information communicated to the client system is within a prior subset of the data set that is communicated to the client system in response to a prior request (paragraph [0171] lines 1-7 and paragraph [0172] lines 1-10); wherein Boykin taught the transmission of data related to the file the client desires to download (attributes) prior the request for the segments 621 of the file 620 are executed.

Regarding claim **8, 20**, Boykin taught providing access to each subset via the request is dependent upon time duration from a prior request (paragraph [0172] lines **30-46**); wherein Boykin taught the execution of further request as dependent on response time (fast/slow) of the servers (paragraph [0172] line **40**).

Regarding claim **9, 21**, Boykin taught providing access to each subset via the request is dependent upon a frequency of occurrence of repeated requests for prior subsets of the data set (paragraph [0172] lines 52-63).

Art Unit: 2144

4. Claims **1-8 and 10-25** are rejected under 35 U.S.C. 102(e) as being anticipated by Shawcross (U.S. Patent Number 6,880,090 B1), hereinafter referenced to as Shawcross.

Regarding claim 1, 14, Shawcross taught a method for transmitting digital encoded data, comprising: associating each subset of data comprising the data set to a select IP address of a plurality of IP addresses (abstract, lines 9-11, column 6 lines 1-2 and claim 2 [note that Shawcross explicitly taught "...the packets associated with the multicast stream..."]), at least two of the subsets comprising the data set having different select IP addresses of the plurality of IP addresses (column 7 line 66 to column 8 line 1), and providing access to each subset of the data set via a request for the subset at the select IP address associated with the subset (column 7 lines 43-66).

Regarding claim **10 and 22**, Shawcross taught a system for transmitting digital encoded data, comprising: selecting a first IP address that is associated with a first subset of the data set, requesting the first subset at the first IP address, selecting a second IP address that is associated with a second subset of the data set (from column 7 line 43 to column 8 line 6), the second IP address being different from the first IP address, and requesting the second subset at the second IP address (column 8 lines 6-18).

Application/Control Number: 09/973,311

Art Unit: 2144

Regarding claims **2, 11-12, 15 and 23-24,** Shawcross taught communicating information to a client system that facilitates the determination of the select IP address for each subset in (column 9 lines 31-37 and 54-65).

Page 8

Regarding claim **3 and 16**, Shawcross taught that the information is communicated to the client system via a secure communication (column 5 lines 43-47).

Regarding claim **4 and 17**, Shawcross taught providing access to each subset occurs via a first communication channel, and communicating the information to the client system occurs via a second communication channel that differs from the first communication channel (column 5 lines 1-40, in particular in lines 38-40).

Regarding claim **5**, **13**, **18 and 25**, Shawcross taught associating each subset to the select IP address is based on a pseudo-random (seemingly random) process that is initialized with a seed value, and the information that is communicated to the client system includes the seed (configuration file and cryptographic key) value (abstract, column 6 lines 1-11 and column 9, lines 31-36 (transmitting to the client) and 42-53).

Regarding claim **6 and 19**, Shawcross taught that the information that is communicated to the client system is encrypted using a public-key system (column 5 lines 43-45 and column 9 lines 54-65).

Art Unit: 2144

Regarding claim 7, Shawcross taught that the information communicated to the client system is within a prior subset of the data set that is communicated to the client system in response to a prior request (column 9 lines 31-36 and lines 54-65).

Regarding claim **8, 20**, Shawcross taught providing access to each subset via the request is dependent upon time duration from a prior request (column 7 line 66 to column 8 line 1).

Art Unit: 2144

Response to Arguments

Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection. The search has been update.

Examiner clarifies that the invention <u>as claimed</u>, only resembles a specific sequence to obtain the entire file in claim 10, wherein a first and second IP addresses are used to request a first and second portion of a file. Applicant is encouraged to incorporate details regarding the pseudo-random algorithm and the composition of the seed value into the independent claims, in order to better describe the argued "specific sequence" features of the claimed invention.

Art Unit: 2144

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892 for details.

If further prosecution on the merits of the instant application is pursued, Applicant is strongly encouraged to:

- 1. Elaborate the independent claims not only in the preamble, but also in the limitations, in order to better define the scope of the claimed invention, for example, a) including details regarding what element of the system performs the association steps and what are the steps of the association process, b) including details regarding the steps performed at the server side that enable the server to provide a second subset of a data set at the second select IP address, and c) clarify that the server system is configured to expect subsequent requests at the changed IP address and that the server system is a single server.
- 2. Incorporate into the independent claims the details of the instant claimed invention that are found in dependent claims that may help to differentiate the claimed invention from the prior art; for example: a) steps related to the determination/generation of the select IP address for each subset, b) steps related to the pseudo-random process, and c) the composition of the seed value).

Art Unit: 2144

3. Explain how the amended claims, if any, are particularly distinct from the

cited prior art.

Applicant is further encouraged to point out where in the specifications is found

the support for any future amendments to the claims.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rainier Suazo whose telephone number is (571) 272-

3931. The examiner can normally be reached on Monday through Friday, 8:00-5:00...

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wiley can be reached on (571) 272-3923. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Rainier Suazo, MBA Patent Examiner Art Unit 2144

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100